

WEST Search History

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DATE: Sunday, March 12, 2006

<u>Hide?</u>	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L71	L70 and ((flat\$4 or planar or tape) with (spring) with (support\$3 or member or shaft or rod or beam or projection) with (((element or unit or sens\$3 detect\$3) with (heat\$3 or thermal\$2 or temperature)) or thermometer or thermist\$2))	1
<input type="checkbox"/>	L70	L69 and (((element or unit or sens\$3 detect\$3) with (heat\$3 or thermal\$2 or temperature)) or thermometer or thermist\$2) with (mount\$4 or affix\$4 or afix\$4 or secur\$3 or held or retain\$4) with (support or member or shaft or rod or beam or projection))	20
<input type="checkbox"/>	L69	L68 and ((element or unit or sens\$3 detect\$3) with (position\$4 or locat\$4) with (direction\$4 or upstream or up-stream or downstream or down-stream) with (contact\$4))	89
<input type="checkbox"/>	L68	((399/323-335.ccls.) or (219/216.ccls.) or (219.619.ccls.) or (219/667-672.ccls.) or (101/463.1.ccls.))	12376
<input type="checkbox"/>	L67	L66 and ((element or unit or sens\$3 detect\$3) with (position\$4 or locat\$4) with (direction\$4 or upstream or up-stream or downstream or down-stream) with (contact\$4))	1
<input type="checkbox"/>	L66	L65 and (((element or unit or sens\$3 detect\$3) with (heat\$3 or thermal\$2 or temperature)) or thermometer or thermist\$2) with (mount\$4 or affix\$4 or afix\$4 or secur\$3 or held or retain\$4) with (support or member or shaft or rod or beam or projection))	83
<input type="checkbox"/>	L65	L64 and ((flat\$4 or planar or tape) with (spring) with (support\$3 or member or shaft or rod or beam or projection) with (((element or unit or sens\$3 detect\$3) with (heat\$3 or thermal\$2 or temperature)) or thermometer or thermist\$2))	84
<input type="checkbox"/>	L64	L25 and ((imag\$4) with (develop\$3 or development or toner))	4715
<input type="checkbox"/>	L63	L62 and ((imag\$4) with (develop\$3 or development or toner))	1
<input type="checkbox"/>	L62	L61 and (((element or unit or sens\$3 detect\$3) with (heat\$3 or thermal\$2 or temperature)) or thermometer or thermist\$2) with (mount\$4 or affix\$4 or afix\$4 or secur\$3 or held or retain\$4) with (support or member or shaft or rod or beam))	4
<input type="checkbox"/>	L61	L60 and ((element or unit or sens\$3 detect\$3) with (position\$4 or locat\$4) with (direction\$4 or upstream or up-stream or downstream or down-stream) with (contact\$4))	4
<input type="checkbox"/>	L60	L25 and ((flat\$4 or planar or tape) with (spring) with (support\$3 or member or shaft or rod or beam or projection) with (((element or unit or sens\$3 detect\$3) with (heat\$3 or thermal\$2 or temperature)) or thermometer or thermist\$2))	109
<input type="checkbox"/>	L59	L53 and ((flat\$4 or planar or tape) with (spring) with (support\$3 or member or shaft or rod or beam or projection) with (((element or unit or sens\$3 detect\$3) with (heat\$3 or thermal\$2 or temperature)) or thermometer or thermist\$2))	1

□	L58	L53 and ((flat\$4 or planar or tape) with (spring) with (support or member or shaft or rod or beam or projection) with (((element or unit or sens\$3 detect\$3) with (heat\$3 or thermal\$2 or temperature)) or thermometer or thermist\$2))	0
□	L57	L53 and ((flat\$4 or planar or tape) with (support or member or shaft or rod or beam or projection or spring) with (((element or unit or sens\$3 detect\$3) with (heat\$3 or thermal\$2 or temperature)) or thermometer or thermist\$2))	2
□	L56	L55 and ((flat\$4 or planar or tape) with (support or member or shaft or rod or beam or projection or spring))	1
□	L55	6114660	5
□	L54	L53 and ((flat\$4 or planar or tape) with (support or member or shaft or rod or beam or projection or spring)) L36 and ((element or unit or sens\$3 detect\$3) with (locat\$4) with (direction\$4 or upstream or up-stream or downstream or down-stream) with (contact\$4) with (position\$4) with (rotatable or rotating or rotated or rotate or rotational\$2 or wind\$4 or move or turn or turnable or turned or turning or moves or moved or movable or moving or movement) with ((heat\$3 or thermal\$2 or temperature) with (roller or member or means)))	2
□	L53	L36 and ((element or unit or sens\$3 detect\$3) with (locat\$4) with (direction\$4 or upstream or up-stream or downstream or down-stream) with (contact\$4) with (position\$4) with (rotatable or rotating or rotated or rotate or rotational\$2 or wind\$4 or move or turn or turnable or turned or turning or moves or moved or movable or moving or movement) with ((heat\$3 or thermal\$2 or temperature) with (roller or member or means))) L43 and ((element or unit or sens\$3 detect\$3) with (locat\$4) with (direction\$4 or upstream or up-stream or downstream or down-stream) with (contact\$4) with (position\$4) with (rotatable or rotating or rotated or rotate or rotational\$2 or wind\$4 or move or turn or turnable or turned or turning or moves or moved or movable or moving or movement) with ((heat\$3 or thermal\$2 or temperature) with (roller or member or means)))	3
□	L52	L43 and ((element or unit or sens\$3 detect\$3) with (locat\$4) with (direction\$4 or upstream or up-stream or downstream or down-stream) with (contact\$4) with (position\$4) with (rotatable or rotating or rotated or rotate or rotational\$2 or wind\$4 or move or turn or turnable or turned or turning or moves or moved or movable or moving or movement) with ((heat\$3 or thermal\$2 or temperature) with (roller or member or means)))	2
□	L51	L50 and ((flat\$4 or planar or tape) with (spring)) L49 and ((element or unit or sens\$3 detect\$3) with (locat\$4) with (direction\$4 or upstream or up-stream or downstream or down-stream) with (contact\$4) with (position\$4) with (rotatable or rotating or rotated or rotate or rotational\$2 or wind\$4 or move or turn or turnable or turned or turning or moves or moved or movable or moving or movement) with ((heat\$3 or thermal\$2 or temperature) with (roller or member or means)))	1
□	L50	L49 and ((element or unit or sens\$3 detect\$3) with (locat\$4) with (direction\$4 or upstream or up-stream or downstream or down-stream) with (contact\$4) with (position\$4) with (rotatable or rotating or rotated or rotate or rotational\$2 or wind\$4 or move or turn or turnable or turned or turning or moves or moved or movable or moving or movement) with ((heat\$3 or thermal\$2 or temperature) with (roller or member or means))) L48 and ((element or unit or sens\$3 detect\$3) with (locat\$4) with (direction\$4 or upstream or up-stream or downstream or down-stream) with (contact\$4) with (position\$4) with (rotatable or rotating or rotated or rotate or rotational\$2 or wind\$4 or move or turn or turnable or turned or turning or moves or moved or movable or moving or movement) with ((heat\$3 or thermal\$2 or temperature) with (roller or member or means)))	2
□	L49	L48 and ((element or unit or sens\$3 detect\$3) with (locat\$4) with (direction\$4 or upstream or up-stream or downstream or down-stream) with (contact\$4) with (position\$4) with (rotatable or rotating or rotated or rotate or rotational\$2 or wind\$4 or move or turn or turnable or turned or turning or moves or moved or movable or moving or movement) with ((heat\$3 or thermal\$2 or temperature) with (roller or member or means)))	2
□	L48	L47 and ((rotatable or rotating or rotated or rotate or rotational\$2 or wind\$4 or move or turn or turnable or turned or turning or moves or moved or movable or moving or movement) with (direction\$4 or upstream or up-stream or downstream or down-stream) with ((heat\$3 or thermal\$2 or temperature) with (roller or member or means))) L46 and (((element or unit or sens\$3 detect\$3) with (heat\$3 or thermal\$2 or temperature)) or thermometer or thermist\$2) with ((press\$4 or contact\$4) with (position\$4 or locat\$4) with (support or member or shaft or rod or beam))	13
□	L47	L46 and (((element or unit or sens\$3 detect\$3) with (heat\$3 or thermal\$2 or temperature)) or thermometer or thermist\$2) with ((press\$4 or contact\$4) with (position\$4 or locat\$4) with (support or member or shaft or rod or beam))	16
□	L46	L45 and ((press\$4 or contact\$4) with (position\$4 or locat\$4) with (support or member or shaft or rod or beam))	20
□	L45	L44 and ((press\$4 or contact\$4) with (position\$4 or locat\$4))	22
□	L44	L43 and (((element or unit or sens\$3 detect\$3) with (heat\$3 or thermal\$2 or temperature)) or thermometer or thermist\$2) with ((mount\$4 or affix\$4 or afix\$4 oe secur\$3 or held or retain\$4) with (support or member or shaft or rod))	22

	or beam))	
<input type="checkbox"/>	L43 L36 and ((circumference or circumferential\$2 or surface or perimeter) with (heat\$3 or thermal\$2 or temperature) with (roller or member or means))	78
<input type="checkbox"/>	L42 L41 and ((circumference or circumferential\$2 or surface or perimeter) with (heat\$3 or thermal\$2 or temperature) with (roller or member or means))	6
<input type="checkbox"/>	L41 L40 and ((heat\$3 or thermal\$2 or temperature) with (roller or member or means))	6
<input type="checkbox"/>	L39 L39 and ((support\$3 or shaft\$3 or roller or member or means) with (position\$4 or locat\$4) with(contact\$4))	6
<input type="checkbox"/>	L38 L38 and ((press\$4 or contact\$4) with (position\$4 or locat\$4))	6
	L36 and (((plate or plane or flat or flatten or flattening or flattened or pancake or slab or slice) with ((heat\$3 or thermal\$2 or temperature or melt\$3) with (resist\$4)) with (film or coating)))	
<input type="checkbox"/>	L37 L36 and (pressfit\$4 or press-fit\$4 or press-contact\$4 or presscontact\$4 or "press fit\$4" or "press contact\$4")	8
	L35 and ((element or unit or sens\$3 detect\$3) with (position\$4 or locat\$4) with (direction\$4 or upstream or up-stream or downstream or down-stream) with (contact\$4))	
<input type="checkbox"/>	L36 (direction\$4 or upstream or up-stream or downstream or down-stream) with (contact\$4))	109
<input type="checkbox"/>	L35 L34 and (press\$4)	871
<input type="checkbox"/>	L34 L33 and (support\$3 or position\$4 or contact\$3 or shaft\$3)	910
	L32 and (((element or unit or sens\$3 detect\$3) with (heat\$3 or thermal\$2 or temperature)) or thermometer or thermist\$2) with (direction\$4 or upstream or up-stream or downstream or down-stream))	
<input type="checkbox"/>	L33 (direction\$4 or upstream or up-stream or downstream or down-stream))	914
<input type="checkbox"/>	L31 and (((element or unit or sens\$3 detect\$3) with (heat\$3 or thermal\$2 or temperature)) or thermometer or thermist\$2)	2523
<input type="checkbox"/>	L30 L30 and ((imag\$4) with (develop\$3 or development or toner))	3421
	L29 and ((rotatable or rotating or rotated or rotate or rotational\$2 or wind\$4 or move or turn or turnable or turned or turning or moves or moved or movable or moving or movement) with (direction\$4 or upstream or up-stream or downstream or down-stream))	
<input type="checkbox"/>	L30 (direction\$4 or upstream or up-stream or downstream or down-stream))	3821
<input type="checkbox"/>	L28 L28 and (direction\$4 or upstream or up-stream or downstream or down-stream)	4404
<input type="checkbox"/>	L28 L27 and (circumference or circumferential\$2 or surface or perimeter)	4661
	L27 L26 and ((heat\$3 or thermal\$2 or temperature or thermometer or melt\$3) with (develop\$3 or development or toner))	
<input type="checkbox"/>	L26 (develop\$3 or development or toner))	4737
<input type="checkbox"/>	L25 L25 and (imag\$4)	6347
<input type="checkbox"/>	L25 L9 and (develop\$3 or development or toner)	14736
<input type="checkbox"/>	L24 L23 and ((record\$3 or captur\$4 or medium) with (develop\$3 or development))	20
	L23 L22 and ((heat\$3 or thermal\$2 or temperature or melt\$3) with (roller or member or means) with (resist\$4) with (film or coating))	
<input type="checkbox"/>	L22 (roller or member or means) with (rotatable or rotating or rotated or rotate or rotational\$2 or wind\$4 or move or turn or turnable or turned or turning or moves or moved or movable or moving or movement) with (direction\$4))	43
<input type="checkbox"/>	L21 L21 and ((heat\$3 or thermal\$2 or temperature or thermometer or melt\$3) with (roller or member or means) with (rotatable or rotating or rotated or rotate or rotational\$2 or wind\$4 or move or turn or turnable or turned or turning or moves or moved or movable or moving or movement) with (direction\$4))	56
<input type="checkbox"/>	L21 L20 and (support\$3 or position\$4 or contact\$3)	68

<input type="checkbox"/>	L19 and (((plate or plane or flat or flatten or flattening or flattened or pancake or slab or slice) with ((heat\$3 or thermal\$2 or temperature or melt\$3) with (resist\$4)) with (film or coating)))	68
<input type="checkbox"/>	L19 and (((heat\$3 or thermal\$2 or temperature or melt\$3) with (resist\$4)) with (film or coating))	534
<input type="checkbox"/>	L18 L17 and (press\$4)	997
<input type="checkbox"/>	L17 L16 and ((heat\$3 or thermal\$2 or temperature or melt\$3) with (resist\$4))	1034
<input type="checkbox"/>	L16 L15 and (film or coating)	1690
<input type="checkbox"/>	L14 and ((rotatable or rotating or rotated or rotate or rotational\$2 or wind\$4 or move or turn or turnable or turned or turning or moves or moved or movable or moving or movement) with (direction\$4))	2164
<input type="checkbox"/>	L14 L13 and (direction\$4)	2522
<input type="checkbox"/>	L13 L12 and (circumference or circumferential\$2 or surface or perimeter)	2685
<input type="checkbox"/>	L12 L11 and ((heat\$3 or thermal\$2 or temperature or thermometer or melt\$3) with (develop\$3 or development))	2724
<input type="checkbox"/>	L11 L10 and (imag\$4)	5894
<input type="checkbox"/>	L10 L9 and (develop\$3 or development)	14233
<input type="checkbox"/>	L8 and ((heat\$3 or thermal\$2 or temperature or thermometer) with (roller or member or means) with (rotatable or rotating or rotated or rotate or rotational\$2 or wind\$4 or move or turn or turnable or turned or turning or moves or moved or movable or moving or movement))	43026
<input type="checkbox"/>	L8 L7 and ((heat\$3 or thermal\$2 or temperature or thermometer) with (roller or member or means))	137063
<input type="checkbox"/>	L7 L6 and (plate or plane or flat or flatten or flattening or flattened or pancake or slab or slice)	479205
<input type="checkbox"/>	L6 L5 and (fix\$4 or fus\$4)	652704
<input type="checkbox"/>	L3 and (rotatable or rotating or rotated or rotate or rotational\$2 or wind\$4 or move or turn or turnable or turned or turning or moves or moved or movable or moving or movement)	1180227
<input type="checkbox"/>	L4 L3 and (rotatable or rotating or rotated or rotate or rotational\$2 or wind\$4 or mov\$4 or turn\$4)	1163022
<input type="checkbox"/>	L3 L2 and (roller or member or means)	1738541
<input type="checkbox"/>	L2 (heat\$3 or thermal\$2 or temperature or thermometer)	7077342
<input type="checkbox"/>	L1 (heat\$3 or thermal\$2 or temperature)	7070604

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 20 of 20 returned.

1. Document ID: US 20060024604 A1

Using default format because multiple data bases are involved.

L24: Entry 1 of 20

File: PGPB

Feb 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060024604

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060024604 A1

TITLE: Toner, developer including the toner, and image forming method, image forming apparatus and process cartridge using the toner

PUBLICATION-DATE: February 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Sugiura; Hideki	Fuji-shi		JP
Iwatsuki; Hitoshi	Numazu-shi		JP

US-CL-CURRENT: 430/111.4; 430/108.11, 430/109.4, 430/137.15

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [References](#) [Sequences](#) [Attachments](#) [Claims](#) [KUD](#) [Drawings](#)

2. Document ID: US 20050277045 A1

L24: Entry 2 of 20

File: PGPB

Dec 15, 2005

PGPUB-DOCUMENT-NUMBER: 20050277045

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050277045 A1

TITLE: Method for preparing resin and particulate material, toner prepared by the method, developer including the toner, toner container, and process cartridge, image forming method and apparatus using the developer

PUBLICATION-DATE: December 15, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Saito, Takuya	Numazu-shi		JP
Tanaka, Chiaki	Tagata-gun		JP
Ishii, Masayuki	Numazu-shi		JP

Watanabe, Naohiro
Naitoh, Kei

Sunto-gun
Sunto-gun

JP
JP

US-CL-CURRENT: 430/109.3; 430/109.1, 430/137.1, 430/137.15, 430/137.17

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINCI](#) | [Drawings](#)

3. Document ID: US 20050207803 A1

L24: Entry 3 of 20

File: PGPB

Sep 22, 2005

PGPUB-DOCUMENT-NUMBER: 20050207803
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050207803 A1

TITLE: Fixing device cleaning device and image forming device

PUBLICATION-DATE: September 22, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Deguchi, Masanobu	Kashiba-shi		JP
Kida, Hiroshi	Yamatokoriyama-shi		JP
Kagawa, Toshiaki	Kitakatsuragi-gun		JP

US-CL-CURRENT: 399/327

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINCI](#) | [Drawings](#)

4. Document ID: US 20050069337 A1

L24: Entry 4 of 20

File: PGPB

Mar 31, 2005

PGPUB-DOCUMENT-NUMBER: 20050069337
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050069337 A1

TITLE: Image forming apparatus

PUBLICATION-DATE: March 31, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Suzumi, Masahiko	Shizuoka		JP
Sato, Akiya	Shizuoka		JP

US-CL-CURRENT: 399/88

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINCI](#) | [Drawings](#)

5. Document ID: US 20050064337 A1

L24: Entry 5 of 20

File: PGPB

Mar 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050064337

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050064337 A1

TITLE: Image forming method and image exposure device

PUBLICATION-DATE: March 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Suganuma, Atsushi	Kanagawa		JP
Sunagawa, Hiroshi	Kanagawa		JP
Aoshima, Norio	Shizuoka-ken		JP
Inno, Toshifumi	Shizuoka-ken		JP

US-CL-CURRENT: 430/300[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [TOC](#) | [Drawings](#) 6. Document ID: US 20040240912 A1

L24: Entry 6 of 20

File: PGPB

Dec 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040240912

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040240912 A1

TITLE: Fixing unit and image forming apparatus

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fujita, Shinsuke	Tokyo		JP
Mizuno, Kyoichi	Tokyo		JP

US-CL-CURRENT: 399/328; 399/330[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [TOC](#) | [Drawings](#) 7. Document ID: US 20040219376 A1

L24: Entry 7 of 20

File: PGPB

Nov 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040219376

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040219376 A1

TITLE: Heat resistant resin film with metal thin film, manufacturing method of the resin film, endless belt, manufacturing method of the belt, and image forming apparatus

PUBLICATION-DATE: November 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Maeyama, Ryuichiro	Ashigarakami-gun		JP
Itoh, Kazuyoshi	Ashigarakami-gun		JP
Naito, Yasutaka	Ashigarakami-gun		JP
Ohara, Hideaki	Ashigarakami-gun		JP

US-CL-CURRENT: 428/457; 427/523

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8. Document ID: US 20040191661 A1

L24: Entry 8 of 20

File: PGPB

Sep 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040191661

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040191661 A1

TITLE: Dry toner, method for producing dry toner, and method for forming an image

PUBLICATION-DATE: September 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ohno, Manabu	Shizuoka		JP
Fukushima, Motoya	Shizuoka		JP
Itabashi, Hitoshi	Kanagawa		JP
Katsuta, Yasushi	Shizuoka		JP
Tosaka, Emi	Shizuoka		JP
Fujimoto, Norikazu	Shizuoka		JP

US-CL-CURRENT: 430/108.24; 430/108.8, 430/109.3, 430/110.3, 430/124, 430/137.15

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9. Document ID: US 20040185384 A1

L24: Entry 9 of 20

File: PGPB

Sep 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040185384

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040185384 A1

TITLE: Image forming method and image exposure apparatus

PUBLICATION-DATE: September 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Suganuma, Atsushi	Kanagawa		JP
Sunagawa, Hiroshi	Kanagawa		JP
Aoshima, Norio	Shizuoka-ken		JP
Inno, Toshifumi	Shizuoka-ken		JP

US-CL-CURRENT: 430/315

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10. Document ID: US 20030118363 A1

L24: Entry 10 of 20

File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030118363

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030118363 A1

TITLE: Image forming apparatus

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Izawa, Satoru	Shizuoka-ken		JP
Goto, Masahiro	Mishima-shi		JP
Miyamoto, Toshio	Numazu-shi		JP
Suzumi, Masahiko	Numazu-shi		JP
Uekawa, Eiji	Shizuoka-ken		JP
Nihonyanagi, Koji	Susono-shi		JP

US-CL-CURRENT: 399/69; 399/328

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11. Document ID: US 20020118977 A1

L24: Entry 11 of 20

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020118977

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020118977 A1

TITLE: Fixing device and image forming apparatus

PUBLICATION-DATE: August 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hasegawa, Hiroto	Shizuoka		JP
Miyamoto, Toshio	Shizuoka		JP
Izawa, Satoru	Shizuoka		JP
Suzumi, Masahiko	Shizuoka		JP
Kanari, Kenji	Shizuoka		JP

US-CL-CURRENT: 399/69; 399/44

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12. Document ID: US 20020076515 A1

L24: Entry 12 of 20

File: PGPB

Jun 20, 2002

PGPUB-DOCUMENT-NUMBER: 20020076515

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020076515 A1

TITLE: Heat resistant resin film with metal thin film, manufacturing method of the resin film, endless belt, manufacturing method of the belt, and image forming apparatus

PUBLICATION-DATE: June 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Maeyama, Ryuichiro	Ashigarakami-gun		JP
Itoh, Kazuyoshi	Ashigarakami-gun		JP
Naito, Yasutaka	Ashigarakami-gun		JP
Ohara, Hideaki	Ashigarakami-gun		JP

US-CL-CURRENT: 428/35.8; 205/152, 428/328, 428/458

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13. Document ID: US 20020022138 A1

L24: Entry 13 of 20

File: PGPB

Feb 21, 2002

PGPUB-DOCUMENT-NUMBER: 20020022138

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020022138 A1

TITLE: Process for producing heat-resistant resin film having metallic thin film,

process for producing endless belt, endless belt, and apparatus for forming image

PUBLICATION-DATE: February 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Maeyama, Ryuichiro	Ebina-shi		JP
Uehara, Yasuhiro	Ebina-shi		JP
Yasuno, Michiaki	Ebina-shi		JP
Omata, Makoto	Ebina-shi		JP

US-CL-CURRENT: 428/457; 427/409, 428/458

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [Full](#) | [Claims](#)

14. Document ID: US 6763205 B2

L24: Entry 14 of 20

File: USPT

Jul 13, 2004

US-PAT-NO: 6763205

DOCUMENT-IDENTIFIER: US 6763205 B2

** See image for Certificate of Correction **

TITLE: Image heating apparatus with heater in form of a plate cooperable with a rotatable member to form a heating nip

DATE-ISSUED: July 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Izawa; Satoru	Shizuoka-ken			JP
Goto; Masahiro	Mishima			JP
Miyamoto; Toshio	Numazu			JP
Suzumi; Masahiko	Numazu			JP
Uekawa; Eiji	Shizuoka-ken			JP
Nihonyanagi; Koji	Susono			JP

US-CL-CURRENT: 399/69; 219/216, 399/328, 399/330, 399/331

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [Full](#) | [Claims](#)

15. Document ID: US 6720084 B2

L24: Entry 15 of 20

File: USPT

Apr 13, 2004

US-PAT-NO: 6720084

DOCUMENT-IDENTIFIER: US 6720084 B2

TITLE: Process for producing heat-resistant resin film having metallic thin film, process for producing endless belt, endless belt, and apparatus for forming image

DATE-ISSUED: April 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maeyama; Ryuichiro	Ebina			JP
Uehara; Yasuhiro	Ebina			JP
Yasuno; Michiaki	Ebina			JP
Omata; Makoto	Ebina			JP

US-CL-CURRENT: 428/458; 156/137, 156/60, 205/143, 205/144, 205/149, 205/151,
205/152, 205/80, 264/241, 264/299, 264/319, 427/230, 427/234, 427/237, 427/240,
427/241, 427/407.1, 427/409, 428/35.8, 428/411.1, 428/457

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Image](#) | [Claims](#) | [KJC](#) | [Drawings](#)

16. Document ID: US 6701102 B2

L24: Entry 16 of 20

File: USPT

Mar 2, 2004

US-PAT-NO: 6701102

DOCUMENT-IDENTIFIER: US 6701102 B2

** See image for Certificate of Correction **

TITLE: Method and apparatus for controlling the temperature in a fixing device of an image forming apparatus

DATE-ISSUED: March 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hasegawa; Hiroto	Shizuoka			JP
Miyamoto; Toshio	Shizuoka			JP
Izawa; Satoru	Shizuoka			JP
Suzumi; Masahiko	Shizuoka			JP
Kanari; Kenji	Shizuoka			JP

US-CL-CURRENT: 399/69; 219/216, 399/330

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Image](#) | [Claims](#) | [KJC](#) | [Drawings](#)

17. Document ID: US 6506477 B1

L24: Entry 17 of 20

File: USPT

Jan 14, 2003

US-PAT-NO: 6506477

DOCUMENT-IDENTIFIER: US 6506477 B1

TITLE: Apparatus and method for forming three-dimensional object

DATE-ISSUED: January 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ueda; Masahide	Kashihara			JP
Kubo; Naoki	Nishinomiya			JP
Kamisaki; Akiyoshi	Takarazuka			JP
Yagi; Fumiya	Toyonaka			JP

US-CL-CURRENT: 156/148, 156/242, 156/285, 156/62.2, 264/103, 264/129, 264/132,
264/280, 264/299, 264/510, 425/130, 425/190, 428/190, 428/546

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Image](#) | [Claims](#) | [TOC](#) | [DRAFT](#)

18. Document ID: US 6040558 A

L24: Entry 18 of 20

File: USPT

Mar 21, 2000

US-PAT-NO: 6040558

DOCUMENT-IDENTIFIER: US 6040558 A

** See image for Certificate of Correction **TITLE: Image heating apparatus

DATE-ISSUED: March 21, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamazaki; Michihito	Tokyo			JP

US-CL-CURRENT: 219/216; 399/329, 399/69

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Image](#) | [Claims](#) | [TOC](#) | [DRAFT](#)

19. Document ID: US 5819149 A

L24: Entry 19 of 20

File: USPT

Oct 6, 1998

US-PAT-NO: 5819149

DOCUMENT-IDENTIFIER: US 5819149 A

** See image for Certificate of Correction **TITLE: Image forming apparatus preventing change of size of image

DATE-ISSUED: October 6, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Watanabe; Yasunari	Susono			JP
Otsuka; Yasumasa	Toride			JP
Hashimoto; Hiroshi	Toride			JP
Takano; Manabu	Tokyo			JP

US-CL-CURRENT: 399/330; 399/44, 399/68

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KIND	Print
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 20. Document ID: US 5682580 A

L24: Entry 20 of 20

File: USPT

Oct 28, 1997

US-PAT-NO: 5682580

DOCUMENT-IDENTIFIER: US 5682580 A

TITLE: Electrophotographic serial printing apparatus

DATE-ISSUED: October 28, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Iwama; Ryouichi	Kawasaki			JP
Masuda; Syuzo	Saijo			JP

US-CL-CURRENT: 399/130; 347/152, 347/156, 399/320

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KIND	Print
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
MEDIUM	2228705
MEDIUMS	52572
MEDIA	690148
MEDIAS	2147
DEVELOPMENT	986255
DEVELOPMENTS	85394
RECORD\$3	0
RECORD	970549
RECORDA	200
RECORDAAD	1
RECORDAAT	1
(L23 AND ((RECORD\$3 OR CAPTUR\$4 OR MEDIUM) WITH (DEVELOP\$3 OR DEVELOPMENT))) . PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	20

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Search Results - Record(s) 1 through 6 of 6 returned.

1. Document ID: US 20050173416 A1

Using default format because multiple data bases are involved.

L38: Entry 1 of 6

File: PGPB

Aug 11, 2005

PGPUB-DOCUMENT-NUMBER: 20050173416
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20050173416 A1

Date No good

TITLE: Heating apparatus

PUBLICATION-DATE: August 11, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fukushi, Kenji	Toride-shi		JP
Yamauchi, Manabu	Kashiwa-shi		JP
Nishihara, Hiroto	Toride-shi		JP
Aiko, Yasuyuki	Toride-shi		JP
Kinoshita, Hidehiko	Kashiwa-shi		JP
Ohta, Tomoichirou	Kashiwa-shi		JP
Hirayama, Takamitsu	Abiko-shi		JP

US-CL-CURRENT: 219/619

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Referrals](#) [Sequences](#) [Attachments](#) [Claims](#) [KMT](#) [Drawings](#)

2. Document ID: US 20050006370 A1

L38: Entry 2 of 6

File: PGPB

Jan 13, 2005

PGPUB-DOCUMENT-NUMBER: 20050006370
 PGPUB-FILING-TYPE: new
 DOCUMENT-IDENTIFIER: US 20050006370 A1

Date No good

TITLE: Image heating apparatus

PUBLICATION-DATE: January 13, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Suzumi, Masahiko	Tokyo		JP

US-CL-CURRENT: 219/216[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw](#) | [Search](#) 3. Document ID: US 20040240912 A1

L38: Entry 3 of 6

File: PGPB

Dec 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040240912

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040240912 A1

TITLE: Fixing unit and image forming apparatus*Applicant's Own instant Application*

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fujita, Shinsuke	Tokyo		JP
Mizuno, Kyoichi	Tokyo		JP

US-CL-CURRENT: 399/328; 399/330[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw](#) | [Search](#) 4. Document ID: US 7002105 B2

L38: Entry 4 of 6

File: USPT

Feb 21, 2006

US-PAT-NO: 7002105

DOCUMENT-IDENTIFIER: US 7002105 B2

TITLE: Image heating apparatus*Date No good*

DATE-ISSUED: February 21, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20050006370 A1	January 13, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suzumi; Masahiko	Tokyo			JP

US-CL-CURRENT: 219/216; 399/328[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Draw](#) | [Search](#)

5. Document ID: US 6987251 B2

L38: Entry 5 of 6

File: USPT

Jan 17, 2006

US-PAT-NO: 6987251

DOCUMENT-IDENTIFIER: US 6987251 B2

TITLE: Heating apparatus with temperature detection system for identifying and notifying the user that the material to be heated is wound around the induction heating element

DATE-ISSUED: January 17, 2006

Date No good

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20050173416 A1	August 11, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fukushi; Kenji	Toride			JP
Yamauchi; Manabu	Kashiwa			JP
Nishihara; Hiroto	Toride			JP
Aiko; Yasuyuki	Toride			JP
Kinoshita; Hidehiko	Kashiwa			JP
Ohta; Tomoichirou	Kashiwa			JP
Hirayama; Takamitsu	Abiko			JP

US-CL-CURRENT: 219/619; 219/667, 219/672, 399/328, 399/330

Full	Title	Description	Front	Review	Classification	Date	Reference			Claims	Kim	Draw
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 6. Document ID: US 5920757 A

L38: Entry 6 of 6

File: USPT

Jul 6, 1999

US-PAT-NO: 5920757

DOCUMENT-IDENTIFIER: US 5920757 A

** See image for Certificate of Correction **

TITLE: Heater having an offset temperature detecting element and image heating apparatus having the heater

DATE-ISSUED: July 6, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Izawa; Satoru	Shizuoka-ken			JP
Takeda; Masami	Yokohama			JP
Miyamoto; Toshio	Numazu			JP
Hotta; Yozo	Susono			JP
Suzumi; Masahiko	Numazu			JP

US-CL-CURRENT: 399/329; 219/216, 399/335[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [Sum](#) | [View](#) | [C](#)[Clear](#) | [Generate Collection](#) | [Print](#) | [Fwd Refs](#) | [Bkwd Refs](#) | [Generate OACS](#)

Term	Documents
PLATE	3894779
PLATES	1565729
PLANE	2096625
PLANES	404600
FLAT	1965264
FLATS	43412
FLATEN	331
FLATENS	47
FLATENING	293
FLATENINGS	2
FLATENED	699
(L36 AND (((PLATE OR PLANE OR FLAT OR FLATEN OR FLATENING OR FLATENED OR PANCAKE OR SLAB OR SLICE) WITH ((HEAT\$3 OR THERMAL\$2 OR TEMPERATURE OR MELT\$3) WITH (RESIST\$4)) WITH (FILM OR COATING))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	6

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1. Document ID: US 20050173416 A1

Using default format because multiple data bases are involved.

L41: Entry 1 of 6

File: PGPB

Aug 11, 2005

PGPUB-DOCUMENT-NUMBER: 20050173416

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050173416 A1

TITLE: Heating apparatus

PUBLICATION-DATE: August 11, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fukushi, Kenji	Toride-shi		JP
Yamauchi, Manabu	Kashiwa-shi		JP
Nishihara, Hiroto	Toride-shi		JP
Aiko, Yasuyuki	Toride-shi		JP
Kinoshita, Hidehiko	Kashiwa-shi		JP
Ohta, Tomoichirou	Kashiwa-shi		JP
Hirayama, Takamitsu	Abiko-shi		JP

US-CL-CURRENT: 219/619

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [TOC](#) [Drawings](#)

2. Document ID: US 20050006370 A1

L41: Entry 2 of 6

File: PGPB

Jan 13, 2005

PGPUB-DOCUMENT-NUMBER: 20050006370

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050006370 A1

TITLE: Image heating apparatus

PUBLICATION-DATE: January 13, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Suzumi, Masahiko	Tokyo		JP

US-CL-CURRENT: 219/216

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMTC	Drawn
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 3. Document ID: US 20040240912 A1

L41: Entry 3 of 6

File: PGPB

Dec 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040240912

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040240912 A1

TITLE: Fixing unit and image forming apparatus

Applicant's own work
No Application

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fujita, Shinsuke	Tokyo		JP
Mizuno, Kyoichi	Tokyo		JP

US-CL-CURRENT: 399/328; 399/330

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMTC	Drawn
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 4. Document ID: US 7002105 B2

L41: Entry 4 of 6

File: USPT

Feb 21, 2006

US-PAT-NO: 7002105

DOCUMENT-IDENTIFIER: US 7002105 B2

TITLE: Image heating apparatus

Date No good
Not Prior Art

DATE-ISSUED: February 21, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20050006370 A1	January 13, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Suzumi; Masahiko	Tokyo			JP

US-CL-CURRENT: 219/216; 399/328

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMTC	Drawn
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5. Document ID: US 6987251 B2

L41: Entry 5 of 6

File: USPT

Jan 17, 2006

US-PAT-NO: 6987251

DOCUMENT-IDENTIFIER: US 6987251 B2

TITLE: Heating apparatus with temperature detection system for identifying and notifying the user that the material to be heated is wound around the induction heating element

DATE-ISSUED: January 17, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050173416 A1

August 11, 2005

*Date No good
Not Prior Art*

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fukushi; Kenji	Toride			JP
Yamauchi; Manabu	Kashiwa			JP
Nishihara; Hiroto	Toride			JP
Aiko; Yasuyuki	Toride			JP
Kinoshita; Hidehiko	Kashiwa			JP
Ohta; Tomoichirou	Kashiwa			JP
Hirayama; Takamitsu	Abiko			JP

US-CL-CURRENT: 219/619; 219/667, 219/672, 399/328, 399/330

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	HTML	Drawings
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 6. Document ID: US 5920757 A

L41: Entry 6 of 6

File: USPT

Jul 6, 1999

US-PAT-NO: 5920757

DOCUMENT-IDENTIFIER: US 5920757 A

** See image for Certificate of Correction **

TITLE: Heater having an offset temperature detecting element and image heating apparatus having the heater

DATE-ISSUED: July 6, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Izawa; Satoru	Shizuoka-ken			JP
Takeda; Masami	Yokohama			JP
Miyamoto; Toshio	Numazu			JP
Hotta; Yozo	Susono			JP
Suzumi; Masahiko	Numazu			JP

US-CL-CURRENT: 399/329; 219/216, 399/335

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	IPC	Drawn
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Term	Documents
TEMPERATURE	3570296
TEMP	852455
TEMPS	79786
TEMPERATURES	1150854
ROLLER	1120139
ROLLERS	766728
MEMBER	3852648
MEMBERS	2194489
MEANS	1889
MEAN	798908
HEAT\$3	0
(L40 AND ((HEAT\$3 OR THERMAL\$2 OR TEMPERATURE) WITH (ROLLER OR MEMBER OR MEANS))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	6

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1. Document ID: US 20050185980 A1

Using default format because multiple data bases are involved.

L37: Entry 1 of 8

File: PGPB

Aug 25, 2005

PGPUB-DOCUMENT-NUMBER: 20050185980

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050185980 A1

TITLE: Developer carrier, developing device, image forming apparatus and computer system

PUBLICATION-DATE: August 25, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Okamoto, Katsumi	Nagano-ken		JP

US-CL-CURRENT: 399/103; 399/279

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [TOC](#) [Drawings](#)

2. Document ID: US 20030044208 A1

L37: Entry 2 of 8

File: PGPB

Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030044208

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030044208 A1

TITLE: Sheet ejecting device, curl eliminating device and image forming apparatus

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kouno, Yuzo	Chiba-ken		JP

US-CL-CURRENT: 399/406

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [TOC](#) [Drawings](#)

3. Document ID: US 6775516 B2

L37: Entry 3 of 8

File: USPT

Aug 10, 2004

US-PAT-NO: 6775516

DOCUMENT-IDENTIFIER: US 6775516 B2

TITLE: Sheet ejecting device, curl eliminating device and image forming apparatus

DATE-ISSUED: August 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kouno; Yuzo	Kamagaya			JP

US-CL-CURRENT: 399/406; 162/271[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Claims](#) [DWC](#) [Graph](#) 4. Document ID: US RE35923 E

L37: Entry 4 of 8

File: USPT

Oct 13, 1998

US-PAT-NO: RE35923

DOCUMENT-IDENTIFIER: US RE35923 E

TITLE: Fixing device, fixing method, and recording apparatus

DATE-ISSUED: October 13, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mitsuya; Teruaki	Ibaraki-ken			JP

US-CL-CURRENT: 399/330; 399/328, 399/67, 399/69[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Claims](#) [DWC](#) [Graph](#) 5. Document ID: US 5752133 A

L37: Entry 5 of 8

File: USPT

May 12, 1998

US-PAT-NO: 5752133

DOCUMENT-IDENTIFIER: US 5752133 A

TITLE: Electrophotographic color image forming apparatus with image exposure means inside of photoreceptor drum

DATE-ISSUED: May 12, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nagase; Hisayoshi	Hachioji			JP
Haneda; Satoshi	Hachioji			JP
Tokimatsu; Hiroyuki	Hachioji			JP
Hamada; Shuta	Hachioji			JP
Miura; Toshihide	Koganei			JP
Fukuchi; Masakazu	Hachioji			JP
Ikeda; Tadayoshi	Hachioji			JP

US-CL-CURRENT: 399/112; 347/138, 399/117

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMD	Print
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 6. Document ID: US 4685792 A

L37: Entry 6 of 8

File: USPT

Aug 11, 1987

US-PAT-NO: 4685792

DOCUMENT-IDENTIFIER: US 4685792 A

TITLE: Copying paper feed device for an electrostatic copying apparatus

DATE-ISSUED: August 11, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Iseki; Masahide	Neyagawa			JP
Yoshiyama; Toshio	Sakai			JP
Kajita; Hiroshi	Kobe			JP
Itakiyo; Masanori	Sakai			JP
Kusumoto; Hiroshi	Takaishi			JP
Kawamori; Yoshizo	Fujiidera			JP
Kawamoto; Masuo	Daito			JP

US-CL-CURRENT: 271/114; 271/119, 271/127, 271/164

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMD	Print
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 7. Document ID: US 4674859 A

L37: Entry 7 of 8

File: USPT

Jun 23, 1987

US-PAT-NO: 4674859

DOCUMENT-IDENTIFIER: US 4674859 A

TITLE: Device for fixing a toner image in an electrostatic copying apparatus

DATE-ISSUED: June 23, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Iseki; Masahide	Neyagawa			JP
Yoshiyama; Toshio	Sakai			JP
Kajita; Hiroshi	Kobe			JP
Itakiyo; Masanori	Sakai			JP
Kusumoto; Hiroshi	Takaishi			JP
Kawamori; Yoshizo	Fujiidera			JP
Kawamoto; Masuo	Daito			JP

US-CL-CURRENT: 399/122

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KIMC	Drawn D.
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 8. Document ID: US 4668076 A

L37: Entry 8 of 8

File: USPT

May 26, 1987

US-PAT-NO: 4668076

DOCUMENT-IDENTIFIER: US 4668076 A

TITLE: Electrostatic copying apparatus with unitized components for ease of maintenance

DATE-ISSUED: May 26, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Iseki; Masahide	Neyagawa			JP
Yoshiyama; Toshio	Sakai			JP
Kajita; Hiroshi	Kobe			JP
Itakiyo; Masanori	Sakai			JP
Kusumoto; Hiroshi	Takaishi			JP
Kawamori; Yoshizo	Fujiidera			JP
Kawamoto; Masuo	Daito			JP

US-CL-CURRENT: 399/111; 399/117

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KIMC	Drawn D.
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
"PRESS FIT\$4"	0
"PRESS CONTACT\$4"	0
PRESSFIT\$4	0

PRESSFIT	1999
PRESSFITABLE	1
PRESSFITB	2
PRESSFITE	7
PRESSFITED	4
PRESSFITEDLY	1
PRESSFITFED	1
PRESSFITIED	2
(L36 AND (PRESSFIT\$4 OR PRESS-FIT\$4 OR PRESS-CONTACT\$4 OR PRESSCONTACT\$4 OR "PRESS FIT\$4" OR "PRESS CONTACT\$4")).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	8

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Search Results - Record(s) 1 through 16 of 16 returned.

1. Document ID: US 20060027113 A1

Using default format because multiple data bases are involved.

L47: Entry 1 of 16

File: PGPB

Feb 9, 2006

PGPUB-DOCUMENT-NUMBER: 20060027113

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060027113 A1

TITLE: Method and apparatus for thermal development with supporting surface for a development medium

PUBLICATION-DATE: February 9, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hackler; Mark A.	Ocean	NJ	US
Kannurpatti; Anandkumar R.	E. Windsor	NJ	US
McMillen; Robert A.	Downington	PA	US
Scheske; Todd M.	Rochester	NY	US

US-CL-CURRENT: 101/463.1

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [References](#) [Sequences](#) [Attachments](#) [Claims](#) [KIDC](#) [Drawings](#)

2. Document ID: US 20050036809 A1

L47: Entry 2 of 16

File: PGPB

Feb 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050036809

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050036809 A1

TITLE: Image heating apparatus

PUBLICATION-DATE: February 17, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fukita, Taku	Mishima-shi		JP
Nanataki, Hideo	Yokohama-shi		JP
Sano, Tetsuya	Shizuoka-ken		JP

Hotta, Yozo	Mishima-shi	JP
Kemmochi, Kazuhisa	Mishima-shi	JP
Fukatsu, Makoto	Mishima-shi	JP
Abe, Keisuke	Shizuoka-ken	JP

US-CL-CURRENT: 399/328[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KJC](#) | [Drawings](#) 3. Document ID: US 20050031385 A1

L47: Entry 3 of 16

File: PGPB

Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050031385
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050031385 A1

TITLE: Image forming apparatus

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Murata, Hiroshi	Yokohama-shi		JP

US-CL-CURRENT: 399/323[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KJC](#) | [Drawings](#) 4. Document ID: US 20040240912 A1

L47: Entry 4 of 16

File: PGPB

Dec 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040240912
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040240912 A1

TITLE: Fixing unit and image forming apparatus

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fujita, Shinsuke	Tokyo		JP
Mizuno, Kyoichi	Tokyo		JP

US-CL-CURRENT: 399/328; 399/330[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KJC](#) | [Drawings](#)

5. Document ID: US 20040234290 A1

L47: Entry 5 of 16

File: PGPB

Nov 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040234290

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040234290 A1

TITLE: Thermal fixing device and image forming apparatus

PUBLICATION-DATE: November 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Tomatsu, Yoshiya	Kasugai-shi		JP

US-CL-CURRENT: 399/67; 399/328, 399/69

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	IVMC	Drawings
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 6. Document ID: US 20040184846 A1

L47: Entry 6 of 16

File: PGPB

Sep 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040184846

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040184846 A1

TITLE: Image forming apparatus

PUBLICATION-DATE: September 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Murata, Hiroshi	Yokohama-shi		JP

US-CL-CURRENT: 399/328; 219/619

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	IVMC	Drawings
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 7. Document ID: US 20020118982 A1

L47: Entry 7 of 16

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020118982

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020118982 A1

TITLE: Fixing unit and image forming apparatus

PUBLICATION-DATE: August 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fuma, Hiroshi	Yamanashi		JP

US-CL-CURRENT: 399/329; 219/216

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [TOC](#) [Drawings](#)

8. Document ID: US 20020118978 A1

L47: Entry 8 of 16

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020118978

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020118978 A1

TITLE: Image heating apparatus

PUBLICATION-DATE: August 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Nakamura, Naoki	Boise	ID	US
Nishitani, Hitoshi	Ibaraki		JP

US-CL-CURRENT: 399/69

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [TOC](#) [Drawings](#)

9. Document ID: US 6973284 B2

L47: Entry 9 of 16

File: USPT

Dec 6, 2005

US-PAT-NO: 6973284

DOCUMENT-IDENTIFIER: US 6973284 B2

TITLE: Induction heating apparatus having sheet releasing mechanism

DATE-ISSUED: December 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Murata, Hiroshi	Yokohama			JP

US-CL-CURRENT: 399/323; 219/216, 219/619, 399/300, 399/329

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [TOC](#) [Drawings](#)

10. Document ID: US 6871039 B2

L47: Entry 10 of 16

File: USPT

Mar 22, 2005

US-PAT-NO: 6871039

DOCUMENT-IDENTIFIER: US 6871039 B2

TITLE: Induction heating apparatus having sheet releasing mechanism

DATE-ISSUED: March 22, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Murata; Hiroshi	Yokohama			JP

US-CL-CURRENT: 399/323; 219/216, 219/619, 399/329, 399/330[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Claims](#) [KIM](#) [DRAFT](#) 11. Document ID: US 6671471 B2

L47: Entry 11 of 16

File: USPT

Dec 30, 2003

US-PAT-NO: 6671471

DOCUMENT-IDENTIFIER: US 6671471 B2

** See image for Certificate of Correction **TITLE: Image heating apparatus

DATE-ISSUED: December 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakamura; Naoki	Boise	ID		
Nishitani; Hitoshi	Ibaraki			JP

US-CL-CURRENT: 399/69; 219/216, 374/153, 399/320[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Claims](#) [KIM](#) [DRAFT](#) 12. Document ID: US 6650863 B2

L47: Entry 12 of 16

File: USPT

Nov 18, 2003

US-PAT-NO: 6650863

DOCUMENT-IDENTIFIER: US 6650863 B2

TITLE: Fixing unit and image forming apparatus

DATE-ISSUED: November 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fuma; Hiroshi	Yamahashi			JP

US-CL-CURRENT: 399/329; 219/216, 399/328, 399/334[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KINIC](#) | [Drawn](#) 13. Document ID: US 6577840 B2

L47: Entry 13 of 16

File: USPT

Jun 10, 2003

US-PAT-NO: 6577840

DOCUMENT-IDENTIFIER: US 6577840 B2

TITLE: Method and apparatus for image forming capable of effectively performing an image fixing process

DATE-ISSUED: June 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hachisuka; Toshiharu	Kanagawa-ken			JP
Yamada; Masamichi	Kanagawa-ken			JP

US-CL-CURRENT: 399/329; 219/216, 399/328[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KINIC](#) | [Drawn](#) 14. Document ID: US 6114660 A

L47: Entry 14 of 16

File: USPT

Sep 5, 2000

US-PAT-NO: 6114660

DOCUMENT-IDENTIFIER: US 6114660 A

TITLE: Photothermographic element processor with flaps

DATE-ISSUED: September 5, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donaldson; Eric J.	St. Paul	MN		
Preszler; Duane A.	River Falls	WI		

US-CL-CURRENT: 219/216; 347/156[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KINIC](#) | [Drawn](#)

15. Document ID: US 5365320 A

L47: Entry 15 of 16

File: USPT

Nov 15, 1994

US-PAT-NO: 5365320

DOCUMENT-IDENTIFIER: US 5365320 A

** See image for Certificate of Correction **TITLE: Sheet warp prevention mechanism employed in a fixing unit of an electrophotographic printer

DATE-ISSUED: November 15, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Takano; Masatoshi	Akikawa			JP
Hirano; Masakazu	Tokyo			JP

US-CL-CURRENT: 399/322; 219/216
[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [References](#) | [Claims](#) | [BRI](#) | [Draw](#)
 16. Document ID: US 5315359 A

L47: Entry 16 of 16

File: USPT

May 24, 1994

US-PAT-NO: 5315359

DOCUMENT-IDENTIFIER: US 5315359 A

TITLE: Heat roll fixing unit

DATE-ISSUED: May 24, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nishikawa; Tomoyuki	Matsudo			JP

US-CL-CURRENT: 399/323; 271/308, 271/311, 399/328
[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [References](#) | [Claims](#) | [BRI](#) | [Draw](#)
[Clear](#) | [Generate Collection](#) | [Print](#) | [Fwd Refs](#) | [Bkwd Refs](#) | [Generate OACS](#)

Term	Documents
ELEMENT	3569278
ELEMENTS	3310007
UNIT	4832992
UNITS	1686157

TEMPERATURE	3570296
TEMP	852455
TEMPS	79786
TEMPERATURES	1150854
THERMOMETER	98821
THERMOMETERS	10919
SUPPORT	3645151
(L46 AND (((ELEMENT OR UNIT OR SENS\$3 DETECT\$3) WITH (HEAT\$3 OR THERMAL\$2 OR TEMPERATURE)) OR THERMOMETER OR THERMIST\$2) WITH ((PRESS\$4 OR CONTACT\$4) WITH (POSITIONS\$4 OR LOCAT\$4)) WITH (SUPPORT OR MEMBER OR SHAFT OR ROD OR BEAM))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	16

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Search Results - Record(s) 1 through 2 of 2 returned.

1. Document ID: US 20040240912 A1

Using default format because multiple data bases are involved.

L49: Entry 1 of 2

File: PGPB

Dec 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040240912

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040240912 A1

TITLE: Fixing unit and image forming apparatus

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fujita, Shinsuke	Tokyo		JP
Mizuno, Kyoichi	Tokyo		JP

US-CL-CURRENT: 399/328; 399/330

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Preference](#) [Sequences](#) [Attachments](#) [Claims](#) [KINIC](#) [Drawn D](#)

2. Document ID: US 6114660 A

L49: Entry 2 of 2

File: USPT

Sep 5, 2000

US-PAT-NO: 6114660

DOCUMENT-IDENTIFIER: US 6114660 A

TITLE: Photothermographic element processor with flaps

DATE-ISSUED: September 5, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donaldson; Eric J.	St. Paul	MN		
Preszler; Duane A.	River Falls	WI		

US-CL-CURRENT: 219/216; 347/156

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Preference](#) [Sequences](#) [Attachments](#) [Claims](#) [KINIC](#) [Drawn D](#)

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Term	Documents
ELEMENT	3569278
ELEMENTS	3310007
UNIT	4832992
UNITS	1686157
UPSTREAM	441849
UPSTREAMS	313
UP-STREAM	4858
UP-STREAMS	14
DOWNSTREAM	551385
DOWNSTREAMS	497
DOWN-STREAM	8979
(L48 AND ((ELEMENT OR UNIT OR SENS\$3 DETECT\$3) WITH (LOCAT\$4) WITH (DIRECTION\$4 OR UPSTREAM OR UP- STREAM OR DOWNSTREAM OR DOWN-STREAM) WITH (CONTACT\$4) WITH (POSITION\$4))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

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Search Results - Record(s) 1 through 3 of 3 returned.

1. Document ID: US 20040240912 A1

Using default format because multiple data bases are involved.

L53: Entry 1 of 3

File: PGPB

Dec 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040240912

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040240912 A1

TITLE: Fixing unit and image forming apparatus

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fujita, Shinsuke	Tokyo		JP
Mizuno, Kyoichi	Tokyo		JP

US-CL-CURRENT: 399/328; 399/330

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawings](#)

2. Document ID: US 6114660 A

L53: Entry 2 of 3

File: USPT

Sep 5, 2000

US-PAT-NO: 6114660

DOCUMENT-IDENTIFIER: US 6114660 A

TITLE: Photothermographic element processor with flaps

DATE-ISSUED: September 5, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donaldson; Eric J.	St. Paul	MN		
Preszler; Duane A.	River Falls	WI		

US-CL-CURRENT: 219/216; 347/156

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawings](#)

3. Document ID: US 5142339 A

L53: Entry 3 of 3

File: USPT

Aug 25, 1992

US-PAT-NO: 5142339

DOCUMENT-IDENTIFIER: US 5142339 A

TITLE: Image recorder with variable fuser nip entry position

DATE-ISSUED: August 25, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kasahara; Nobuo	Yokohama			JP
Kawaishi; Yasunori	Narashino			JP
Hirono; Tatsuo	Kawasaki			JP

US-CL-CURRENT: 399/322[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Abstract](#) | [Claims](#) | [IWAC](#) | [Drawings](#)

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[Generate GACS](#)

Search Results - Record(s) 1 through 2 of 2 returned.

1. Document ID: US 20040240912 A1

Using default format because multiple data bases are involved.

L54: Entry 1 of 2

File: PGPB

Dec 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040240912

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040240912 A1

TITLE: Fixing unit and image forming apparatus

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fujita, Shinsuke	Tokyo		JP
Mizuno, Kyoichi	Tokyo		JP

US-CL-CURRENT: 399/328; 399/330

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sentences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawings](#)

2. Document ID: US 6114660 A

L54: Entry 2 of 2

File: USPT

Sep 5, 2000

US-PAT-NO: 6114660

DOCUMENT-IDENTIFIER: US 6114660 A

TITLE: Photothermographic element processor with flaps

DATE-ISSUED: September 5, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donaldson; Eric J.	St. Paul	MN		
Preszler; Duane A.	River Falls	WI		

US-CL-CURRENT: 219/216; 347/156

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sentences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawings](#)

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Term	Documents
PLANAR	558398
PLANARS	174
TAPE	694085
TAPES	126850
SUPPORT	3645151
SUPPORTS	1243977
MEMBER	3852648
MEMBERS	2194489
SHAFT	2383819
SHAFTS	523207
ROD	1593575
(L53 AND ((FLAT\$4 OR PLANAR OR TAPE) WITH (SUPPORT OR MEMBER OR SHAFT OR ROD OR BEAM OR PROJECTION OR SPRING))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	2

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Search Results - Record(s) 1 through 1 of 1 returned.

1. Document ID: US 6114660 A

Using default format because multiple data bases are involved.

L56: Entry 1 of 1

File: USPT

Sep 5, 2000

US-PAT-NO: 6114660

DOCUMENT-IDENTIFIER: US 6114660 A

TITLE: Photothermographic element processor with flaps

DATE-ISSUED: September 5, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donaldson; Eric J.	St. Paul	MN		
Preszler; Duane A.	River Falls	WI		

US-CL-CURRENT: 219/216; 347/156

Full	Title	Citation	Front	Review	Classification	Date	References			Claims	KIMC	Drawings
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
PLANAR	558398
PLANARS	174
TAPE	694085
TAPES	126850
SUPPORT	3645151
SUPPORTS	1243977
MEMBER	3852648
MEMBERS	2194489
SHAFT	2383819
SHAFTS	523207
ROD	1593575
(L55 AND ((FLAT\$4 OR PLANAR OR TAPE) WITH	

(SUPPORT OR MEMBER OR SHAFT OR ROD OR BEAM OR
PROJECTION OR
SPRING))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.

1

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[First Hit](#) [Fwd Refs](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)[End of Result Set](#) [Generate Collection](#) [Print](#)

L56: Entry 1 of 1

File: USPT

Sep 5, 2000

DOCUMENT-IDENTIFIER: US 6114660 A

TITLE: Photothermographic element processor with flaps

Detailed Description Text (7):

Heated member 14 is shown as being a rotatable cylindrical drum. Other shapes are contemplated. For example, heated member 14 could be a moveable, supported belt having a flat surface so that photothermographic element 12 is flat while being heated. However, cylindrical heated member 14 or heated member 14 having some other type of curved shape can allow for heating of photothermographic element 12 within a limited space. The width of heated member 14 should preferably be chosen to thermally develop the entire width of photothermographic element 12. The diameter of cylindrical heated member 14 should be chosen in conjunction with the desired throughput rate and the desired compactness of thermal processor 10. Similarly, the contact length and shape of an irregularly curved or a flat, supported belt can be chosen based on these considerations.

Detailed Description Text (55):

These parameters, of course, can be varied with the particular characteristics of photothermographic element 12 being developed and the throughput goals desired. For example, the temperature and rotation rate of heated member 14 can be varied as well as the dwell time for which photothermographic element 12 contacts heated member 14 in order to develop a photothermographic element 12 having different development requirements. In addition, both heated member 14 and guiding members 16 can have a resilient layer, or guiding members 16 can have a resilient layer while heated member 14 has a less resilient exterior surface. Plus, thermal processor 10 could be reconfigured so that the rotating rollers were heated members 14 and the cylindrical drum or the flat, supported endless belt could act as guiding member 16. It is preferred that the photothermographic emulsion layer of photothermographic element 12 contact resilient layer 38, however, the opposite side of photothermographic element 12 could also be in contact with resilient layer 38. In addition, it is also preferred that the photothermographic emulsion layer of photothermographic element 12 contact heated member 14, however, the opposite side of photothermographic element 12 could also be in contact with heated member 14.

Detailed Description Text (61):

FIG. 17 is an enlarged perspective view of one of the contact flaps 216 and its associated support structure. One end of the contact flap 216 is preferably retained between a base support bar 222 and a clamp 223 that are connected to each other by threaded fasteners 225 in the preferred embodiment. Also a part of the preferred support structure is a sleeve 224 into which a portion of the flap is inserted and which provides a curve in the normally planar nature of the preferred contact flap material. The base support bar 222, clamp 223, and sleeve 224 are preferably formed of metal, e.g., stainless steel, although other materials could also be used.

Detailed Description Text (87):

The angle θ , shown in FIG. 9, at which element guide 60 guides photothermographic element 12 away from heated member 14 is important to minimize

the curl created due to the heating and cooling of photothermographic element 12. The flatness of photothermographic element 12 after being developed can depend on the angle at which the heated photothermographic element 12 is removed from heated member 14 and the temperature gradient within the photothermographic element 12 during the cooling process. In order to develop photothermographic element 12 with a dynamic curl (ANSI standard test PH1.29-1985) of preferably not more than 0.4 inch (10.0 millimeters) and more preferably not more than 0.2 inch (5.0 millimeters), photothermographic element 12 should not be subjected to abrupt changes in temperature as photothermographic element 12 is transported off heated member 14. In an ideal situation photothermographic element 12 is allowed to slowly equilibrate over an extended transport distance. It has been found that, for photothermographic element 12 having a thickness of 0.008 inch (0.20 millimeters), the angle q should preferably be at least 10 degrees and more preferably between 10 and 50 degrees to achieve an acceptable flatness. For photothermographic element 12 having a different type and caliper of base material or emulsion/imaging layer, this angle q may vary.

Detailed Description Text (112):

Optical scanning module 108 includes laser scanner 112 shown in FIG. 13. Laser scanner 112 includes laser diode 114 with collimating and polarizing optics 116, beam splitter 118 which splits 2-10% of the main beam for feedback to laser diode 114 for linearizing laser scanner 112, attenuator 120 to control the maximum power at the surface of film platen 144, resonant galvanometer scanner 122 to scan the beam in the fast scan direction x and linear galvanometer scanner 124 to scan the beam in the slow scan direction y on photothermographic element 12 which is statically disposed on film platen 144. A set of lenses 126 between the attenuator 120 and galvanometer scanners 122,124 are used to focus the beam on film platen 144 with flat field correction across the slow scan direction y. Representative 2-D Infrared laser scanners 112 are described in U.S. Pat. Nos. 4,750,045, 5,237,444, and 5,121,138.

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1. Document ID: US 20040240912 A1

Using default format because multiple data bases are involved.

L59: Entry 1 of 1

File: PGPB

Dec 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040240912

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040240912 A1

TITLE: Fixing unit and image forming apparatus

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fujita, Shinsuke	Tokyo		JP
Mizuno, Kyoichi	Tokyo		JP

US-CL-CURRENT: 399/328; 399/330

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawings](#)

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Term	Documents
PLANAR	558398
PLANARS	174
TAPE	694085
TAPES	126850
SPRING	2386959
SPRINGS	689460
MEMBER	3852648
MEMBERS	2194489
SHAFT	2383819
SHAFTS	523207
ROD	1593575

(L53 AND ((FLAT\$4 OR PLANAR OR TAPE) WITH
(SPRING) WITH (SUPPORT\$3 OR MEMBER OR SHAFT OR
ROD OR BEAM OR PROJECTION) WITH (((ELEMENT OR
UNIT OR SENS\$3 DETECT\$3) WITH (HEAT\$3 OR
THERMAL\$2 OR TEMPERATURE)) OR THERMOMETER OR
THERMIST\$2))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.

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Search Results - Record(s) 1 through 4 of 4 returned.

1. Document ID: US 20040240912 A1

Using default format because multiple data bases are involved.

L62: Entry 1 of 4

File: PGPB

Dec 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040240912

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040240912 A1

TITLE: Fixing unit and image forming apparatus

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fujita, Shinsuke	Tokyo		JP
Mizuno, Kyoichi	Tokyo		JP

US-CL-CURRENT: 399/328; 399/330

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KIDC](#) [Drawings](#)

2. Document ID: US 3138685 A

L62: Entry 2 of 4

File: USOC

Jun 23, 1964

US-PAT-NO: 3138685

DOCUMENT-IDENTIFIER: US 3138685 A

TITLE: Dual bimetallic control thermostat

DATE-ISSUED: June 23, 1964

INVENTOR-NAME: ALCOTT ROLLIN A; LUNDBERG JOHN E

US-CL-CURRENT: 337/57, 337/107, 337/38, 337/78, 337/82, 337/89, 337/95

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KIDC](#) [Drawings](#)

3. Document ID: US 2415795 A

L62: Entry 3 of 4

File: USOC

Feb 11, 1947

US-PAT-NO: 2415795

DOCUMENT-IDENTIFIER: US 2415795 A

TITLE: Sadiron

DATE-ISSUED: February 11, 1947

INVENTOR-NAME: KOCH LUDVIK J

US-CL-CURRENT: 219/252; 219/254

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KIDC	Drafter
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 4. Document ID: US 2376759 A

L62: Entry 4 of 4

File: USOC

May 22, 1945

US-PAT-NO: 2376759

DOCUMENT-IDENTIFIER: US 2376759 A

TITLE: Circuit breaker

DATE-ISSUED: May 22, 1945

INVENTOR-NAME: DYER LLOYD W; DORMAN HILLER D

US-CL-CURRENT: 335/39, 335/145, 335/66, 68/263B

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KIDC	Drafter
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Term	Documents
ELEMENT	3569278
ELEMENTS	3310007
UNIT	4832992
UNITS	1686157
TEMPERATURE	3570296
TEMP	852455
TEMPS	79786
TEMPERATURES	1150854
THERMOMETER	98821
THERMOMETERS	10919
OE	117783
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DETECT\$3) WITH (HEAT\$3 OR THERMAL\$2 OR
TEMPERATURE)) OR THERMOMETER OR THERMIST\$2)
WITH (MOUNT\$4 OR AFFIX\$4 OR AFIX\$4 OE SECUR\$3
OR HELD OR RETAIN\$4) WITH (SUPPORT OR MEMBER
OR SHAFT OR ROD OR
BEAM))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.

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1. Document ID: US 20040240912 A1

Using default format because multiple data bases are involved.

L67: Entry 1 of 1

File: PGPB

Dec 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040240912

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040240912 A1

TITLE: Fixing unit and image forming apparatus

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fujita, Shinsuke	Tokyo		JP
Mizuno, Kyoichi	Tokyo		JP

US-CL-CURRENT: 399/328; 399/330

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Drawings](#)

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Search Results - Record(s) 1 through 20 of 20 returned.

1. Document ID: US 20060027113 A1

Using default format because multiple data bases are involved.

L70: Entry 1 of 20

File: PGPB

Feb 9, 2006

PGPUB-DOCUMENT-NUMBER: 20060027113

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060027113 A1

TITLE: Method and apparatus for thermal development with supporting surface for a development medium

PUBLICATION-DATE: February 9, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hackler; Mark A.	Ocean	NJ	US
Kannurpatti; Anandkumar R.	E. Windsor	NJ	US
McMillen; Robert A.	Downingtown	PA	US
Scheske; Todd M.	Rochester	NY	US

US-CL-CURRENT: 101/463.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWD	Drawn
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2. Document ID: US 20050036809 A1

L70: Entry 2 of 20

File: PGPB

Feb 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050036809

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050036809 A1

TITLE: Image heating apparatus

PUBLICATION-DATE: February 17, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fukita, Taku	Mishima-shi		JP
Nanataki, Hideo	Yokohama-shi		JP
Sano, Tetsuya	Shizuoka-ken		JP

Hotta, Yozo	Mishima-shi	JP
Kemmochi, Kazuhisa	Mishima-shi	JP
Fukatsu, Makoto	Mishima-shi	JP
Abe, Keisuke	Shizuoka-ken	JP

US-CL-CURRENT: 399/328[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RICO](#) | [Drawings](#) 3. Document ID: US 20050031385 A1

L70: Entry 3 of 20

File: PGPB

Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050031385

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050031385 A1

TITLE: Image forming apparatus

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Murata, Hiroshi	Yokohama-shi		JP

US-CL-CURRENT: 399/323[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RICO](#) | [Drawings](#) 4. Document ID: US 20040240912 A1

L70: Entry 4 of 20

File: PGPB

Dec 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040240912

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040240912 A1

TITLE: Fixing unit and image forming apparatus

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fujita, Shinsuke	Tokyo		JP
Mizuno, Kyoichi	Tokyo		JP

US-CL-CURRENT: 399/328; 399/330[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RICO](#) | [Drawings](#)

5. Document ID: US 20040234290 A1

L70: Entry 5 of 20

File: PGPB

Nov 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040234290

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040234290 A1

TITLE: Thermal fixing device and image forming apparatus

PUBLICATION-DATE: November 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Tomatsu, Yoshiya	Kasugai-shi		JP

US-CL-CURRENT: 399/67; 399/328, 399/69[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [TOC](#) | [Drawings](#) 6. Document ID: US 20040184846 A1

L70: Entry 6 of 20

File: PGPB

Sep 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040184846

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040184846 A1

TITLE: Image forming apparatus

PUBLICATION-DATE: September 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Murata, Hiroshi	Yokohama-shi		JP

US-CL-CURRENT: 399/328; 219/619[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [TOC](#) | [Drawings](#) 7. Document ID: US 20020118982 A1

L70: Entry 7 of 20

File: PGPB

Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020118982

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020118982 A1

TITLE: Fixing unit and image forming apparatus

PUBLICATION-DATE: August 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fuma, Hiroshi	Yamanashi		JP

US-CL-CURRENT: 399/329; 219/216

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawings](#)

8. Document ID: US 6973284 B2

L70: Entry 8 of 20

File: USPT

Dec 6, 2005

US-PAT-NO: 6973284

DOCUMENT-IDENTIFIER: US 6973284 B2

TITLE: Induction heating apparatus having sheet releasing mechanism

DATE-ISSUED: December 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Murata; Hiroshi	Yokohama			JP

US-CL-CURRENT: 399/323; 219/216, 219/619, 399/300, 399/329

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawings](#)

9. Document ID: US 6871039 B2

L70: Entry 9 of 20

File: USPT

Mar 22, 2005

US-PAT-NO: 6871039

DOCUMENT-IDENTIFIER: US 6871039 B2

TITLE: Induction heating apparatus having sheet releasing mechanism

DATE-ISSUED: March 22, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Murata; Hiroshi	Yokohama			JP

US-CL-CURRENT: 399/323; 219/216, 219/619, 399/329, 399/330

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawings](#)

10. Document ID: US 6671471 B2

L70: Entry 10 of 20

File: USPT

Dec 30, 2003

US-PAT-NO: 6671471

DOCUMENT-IDENTIFIER: US 6671471 B2

** See image for Certificate of Correction **

TITLE: Image heating apparatus

DATE-ISSUED: December 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakamura; Naoki	Boise	ID		
Nishitani; Hitoshi	Ibaraki			JP

US-CL-CURRENT: 399/69; 219/216, 374/153, 399/320

Full	Title	Citation	Front	Review	Classification	Date	References			Claims	HTML	Drawn
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 11. Document ID: US 6650863 B2

L70: Entry 11 of 20

File: USPT

Nov 18, 2003

US-PAT-NO: 6650863

DOCUMENT-IDENTIFIER: US 6650863 B2

TITLE: Fixing unit and image forming apparatus

DATE-ISSUED: November 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fuma; Hiroshi	Yamahashi			JP

US-CL-CURRENT: 399/329; 219/216, 399/328, 399/334

Full	Title	Citation	Front	Review	Classification	Date	References			Claims	HTML	Drawn
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 12. Document ID: US 6577840 B2

L70: Entry 12 of 20

File: USPT

Jun 10, 2003

US-PAT-NO: 6577840

DOCUMENT-IDENTIFIER: US 6577840 B2

TITLE: Method and apparatus for image forming capable of effectively performing an image fixing process

DATE-ISSUED: June 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hachisuka; Toshiharu	Kanagawa-ken			JP
Yamada; Masamichi	Kanagawa-ken			JP

US-CL-CURRENT: 399/329; 219/216, 399/328[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KJC](#) | [Draw](#) 13. Document ID: US 6114660 A

L70: Entry 13 of 20

File: USPT

Sep 5, 2000

US-PAT-NO: 6114660

DOCUMENT-IDENTIFIER: US 6114660 A

TITLE: Photothermographic element processor with flaps

DATE-ISSUED: September 5, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donaldson; Eric J.	St. Paul	MN		
Preszler; Duane A.	River Falls	WI		

US-CL-CURRENT: 219/216; 347/156[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KJC](#) | [Draw](#) 14. Document ID: US 5502967 A

L70: Entry 14 of 20

File: USPT

Apr 2, 1996

US-PAT-NO: 5502967

DOCUMENT-IDENTIFIER: US 5502967 A

** See image for Certificate of Correction **

TITLE: Color variation inducing device

DATE-ISSUED: April 2, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nakagawa; Tanehiro	Nagoya			JP
Tomatsu; Tsutomu	Nagoya			JP
Ono; Yoshiaki	Gifu			JP

US-CL-CURRENT: 62/3.3; 219/216, 219/229, 62/3.2

[Full] [Title] [Citation] [Front] [Review] [Classification] [Date] [Reference] [Claims] [KINIC] [Drawings]

15. Document ID: US 5365320 A

L70: Entry 15 of 20

File: USPT

Nov 15, 1994

US-PAT-NO: 5365320

DOCUMENT-IDENTIFIER: US 5365320 A

** See image for Certificate of Correction **

TITLE: Sheet warp prevention mechanism employed in a fixing unit of an electrophotographic printer

DATE-ISSUED: November 15, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Takano; Masatoshi	Akikawa			JP
Hirano; Masakazu	Tokyo			JP

US-CL-CURRENT: 399/322; 219/216

[Full] [Title] [Citation] [Front] [Review] [Classification] [Date] [Reference] [Claims] [KINIC] [Drawings]

16. Document ID: US 5315359 A

L70: Entry 16 of 20

File: USPT

May 24, 1994

US-PAT-NO: 5315359

DOCUMENT-IDENTIFIER: US 5315359 A

TITLE: Heat roll fixing unit

DATE-ISSUED: May 24, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nishikawa; Tomoyuki	Matsudo			JP

US-CL-CURRENT: 399/323; 271/308, 271/311, 399/328

[Full] [Title] [Citation] [Front] [Review] [Classification] [Date] [Reference] [Claims] [KINIC] [Drawings]

17. Document ID: US 4464561 A

L70: Entry 17 of 20

File: USPT

Aug 7, 1984

US-PAT-NO: 4464561

DOCUMENT-IDENTIFIER: US 4464561 A

TITLE: Development unit for dry silver recording paper

DATE-ISSUED: August 7, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hulin; David K.	Bramley			GB2

US-CL-CURRENT: 219/216; 219/388, 432/230

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

18. Document ID: US 4065120 A

L70: Entry 18 of 20

File: USPT

Dec 27, 1977

US-PAT-NO: 4065120

DOCUMENT-IDENTIFIER: US 4065120 A

TITLE: Copy paper stripping means

DATE-ISSUED: December 27, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Imaizumi; Masaru	Shinshiro			JA
Inagaki; Syotaro	Okazaki			JA

US-CL-CURRENT: 271/311; 118/245, 271/900, 399/323, 432/60

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

19. Document ID: US 3452181 A

L70: Entry 19 of 20

File: USOC

Jun 24, 1969

US-PAT-NO: 3452181

DOCUMENT-IDENTIFIER: US 3452181 A

TITLE: ROLL FUSING DEVICE FOR XEROGRAPHIC MATERIAL

DATE-ISSUED: June 24, 1969

INVENTOR-NAME: STRYJEWSKI WALTER ANTHONY

US-CL-CURRENT: 219/216; 219/388, 219/469, 219/470, 250/319, 392/417, 392/421,
399/324, 399/330, 432/230, 432/31, 432/8

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

20. Document ID: US 2813959 A

L70: Entry 20 of 20

File: USOC

Nov 19, 1957

US-PAT-NO: 2813959

DOCUMENT-IDENTIFIER: US 2813959 A

TITLE: Billet holding and handling apparatus for electric induction heaters

DATE-ISSUED: November 19, 1957

INVENTOR-NAME: MITCHELL GEORGE A; GAYETSKY ELMER J

US-CL-CURRENT: 219/650, 219/637, 219/667[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [References](#) | [Claims](#) | [Table](#) | [Print](#)[Clear](#) | [Generate Collection](#) | [Print](#) | [Fwd Refs](#) | [Bkwd Refs](#) | [Generate OACS](#)

Term	Documents
ELEMENT	3569278
ELEMENTS	3310007
UNIT	4832992
UNITS	1686157
TEMPERATURE	3570296
TEMP	852455
TEMPS	79786
TEMPERATURES	1150854
THERMOMETER	98821
THERMOMETERS	10919
HELD	2710602
(L69 AND (((ELEMENT OR UNIT OR SENS\$3 DETECT\$3) WITH (HEAT\$3 OR THERMAL\$2 OR TEMPERATURE)) OR THERMOMETER OR THERMIST\$2) WITH (MOUNT\$4 OR AFFIX\$4 OR AFIX\$4 OR SECUR\$3 OR HELD OR RETAIN\$4) WITH (SUPPORT OR MEMBER OR SHAFT OR ROD OR BEAM OR PROJECTION)) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	20

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1. Document ID: US 20040240912 A1

Using default format because multiple data bases are involved.

L71: Entry 1 of 1

File: PGPB

Dec 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040240912

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040240912 A1

TITLE: Fixing unit and image forming apparatus

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fujita, Shinsuke	Tokyo		JP
Mizuno, Kyoichi	Tokyo		JP

US-CL-CURRENT: 399/328; 399/330
[Full](#) | [Title](#) | [Exitation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Diane D.](#)
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Term	Documents
PLANAR	558398
PLANARS	174
TAPE	694085
TAPES	126850
SPRING	2386959
SPRINGS	689460
MEMBER	3852648
MEMBERS	2194489
SHAFT	2383819
SHAFTS	523207
ROD	1593575

(L70 AND ((FLAT\$4 OR PLANAR OR TAPE) WITH (SPRING)
WITH (SUPPORT\$3 OR MEMBER OR SHAFT OR ROD OR BEAM
OR PROJECTION) WITH (((ELEMENT OR UNIT OR SENS\$3
DETECT\$3) WITH (HEAT\$3 OR THERMAL\$2 OR
TEMPERATURE)) OR THERMOMETER OR
THERMIST\$2))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.

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